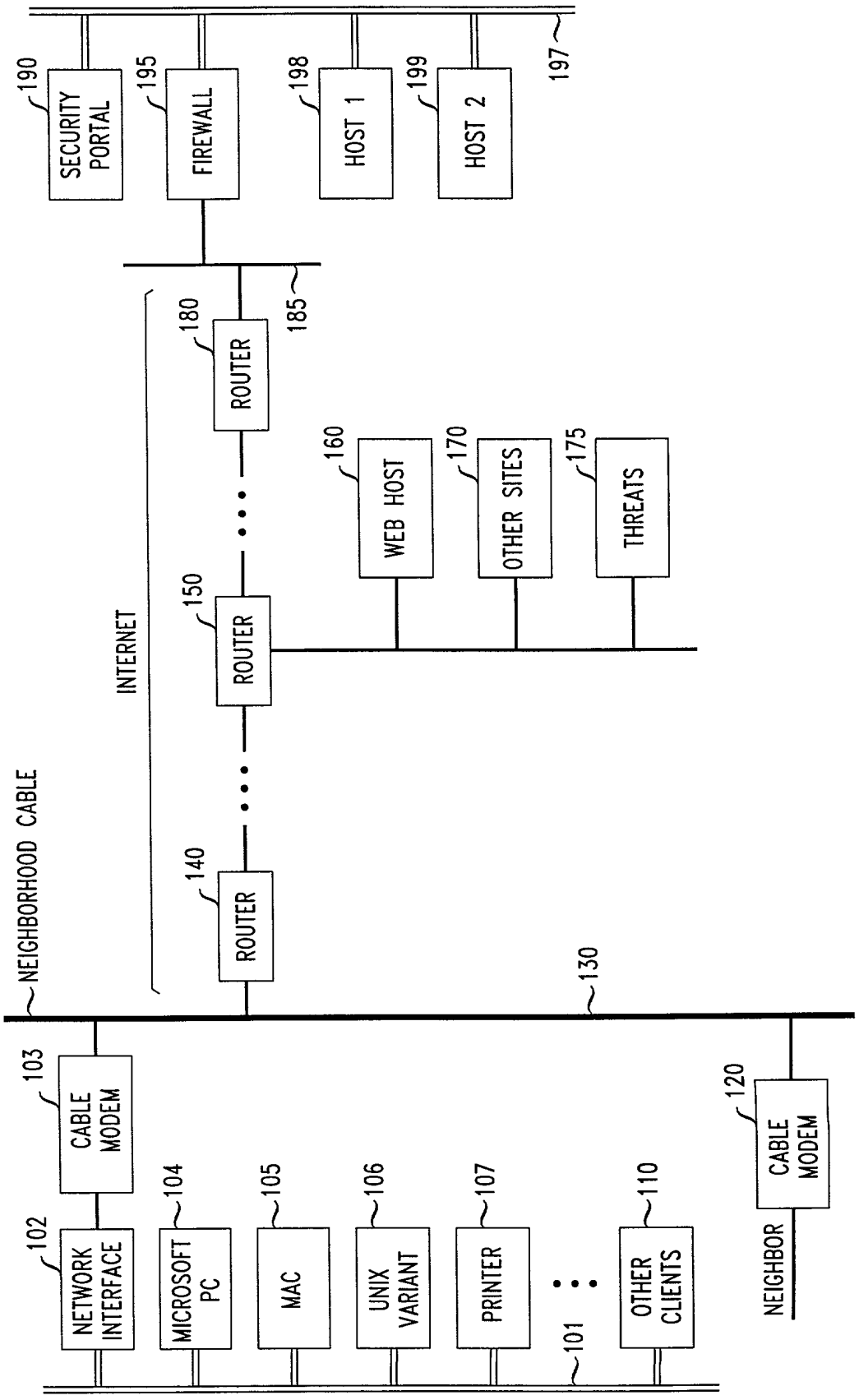

190
SECURITY PORTAL
195
FIREWALL
198
HOST 1
199
HOST 2
197
185
180
ROUTER
160
WEB HOST
170
OTHER SITES
175
THREATS
150
ROUTER
INTERNET
140
ROUTER
NEIGHBORHOOD CABLE
130
103
CABLE MODEM
120
CABLE MODEM
102
NETWORK INTERFACE
104
MICROSOFT PC
105
MAC
106
UNIX VARIANT
107
PRINTER
101
110
OTHER CLIENTS
NEIGHBOR

FIG. 1

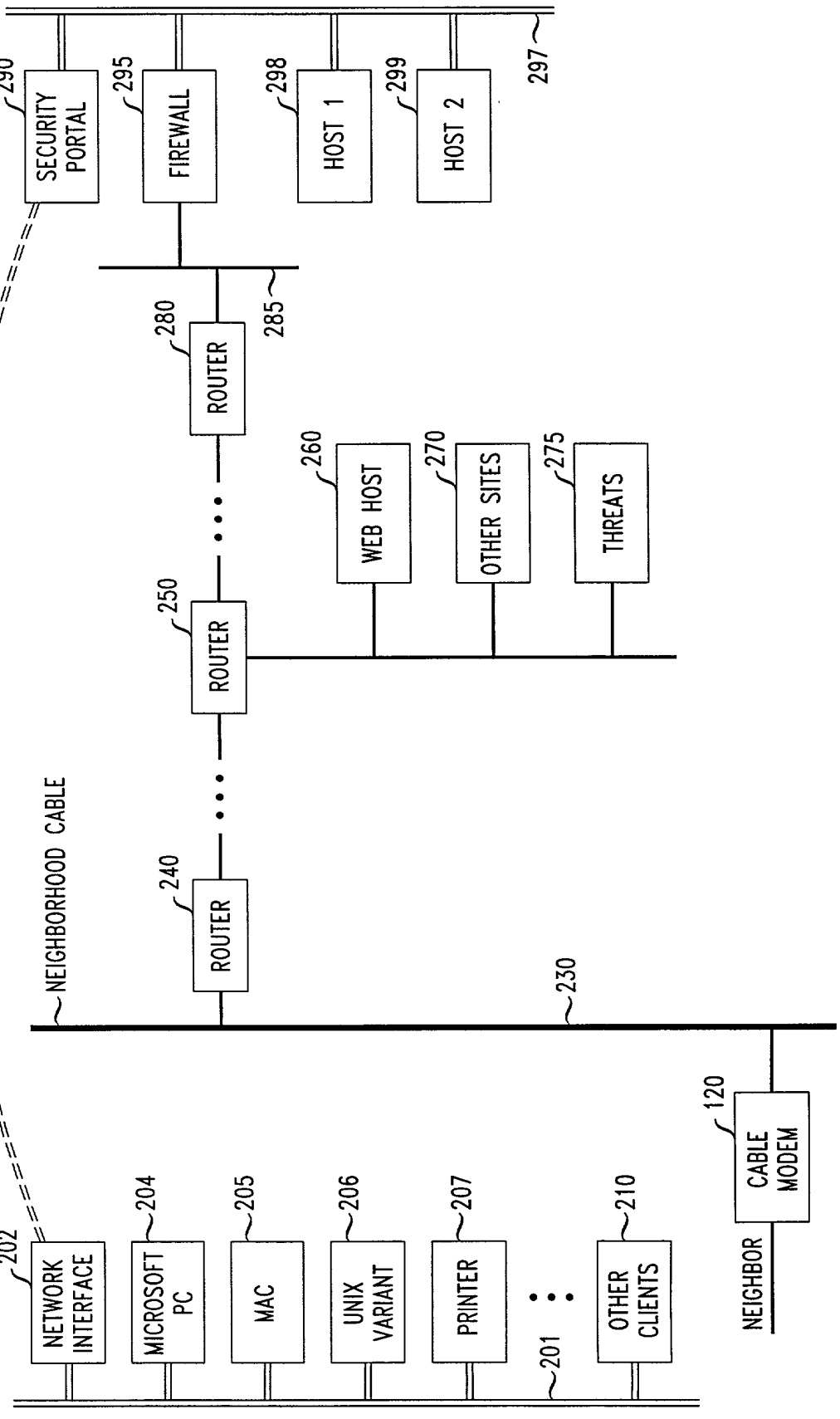

290
SECURITY PORTAL
295
FIREWALL
298
HOST 1
299
HOST 2
297
280
ROUTER
285
260
WEB HOST
270
OTHER SITES
275
THREATS
250
ROUTER
240
ROUTER
INTERNET
NEIGHBORHOOD CABLE
230
120
CABLE MODEM
NEIGHBOR
202
NETWORK INTERFACE
204
MICROSOFT PC
205
MAC
206
UNIX VARIANT
207
PRINTER
201
210
OTHER CLIENTS

FIG. 2

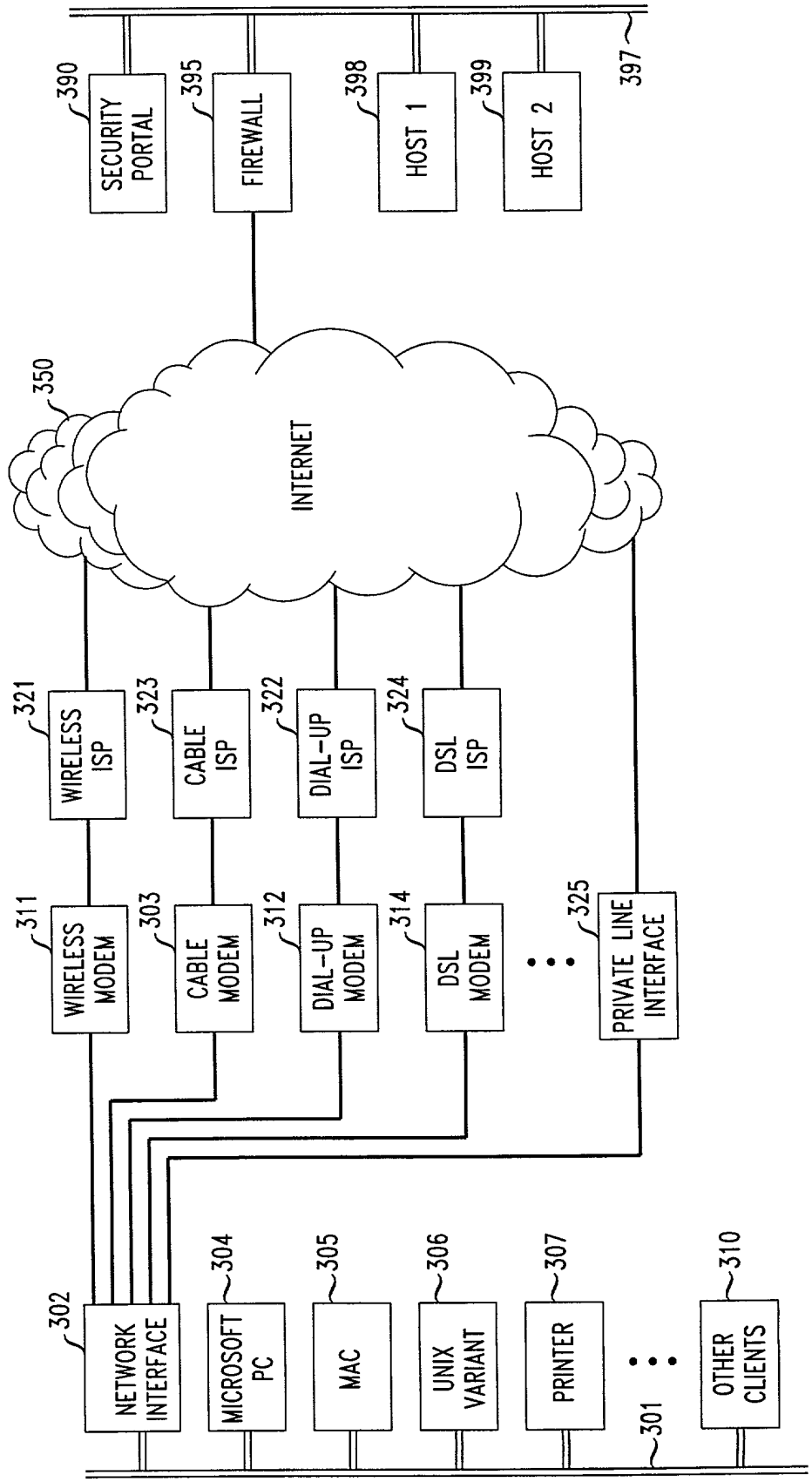

397
390
SECURITY PORTAL
395
FIREWALL
398
HOST 1
399
HOST 2
350
INTERNET
321
WIRELESS ISP
323
CABLE ISP
322
DIAL-UP ISP
324
DSL ISP
311
WIRELESS MODEM
303
CABLE MODEM
312
DIAL-UP MODEM
314
DSL MODEM
325
PRIVATE LINE INTERFACE
302
NETWORK INTERFACE
304
MICROSOFT PC
305
MAC
306
UNIX VARIANT
307
PRINTER
301
310
OTHER CLIENTS

FIG. 3

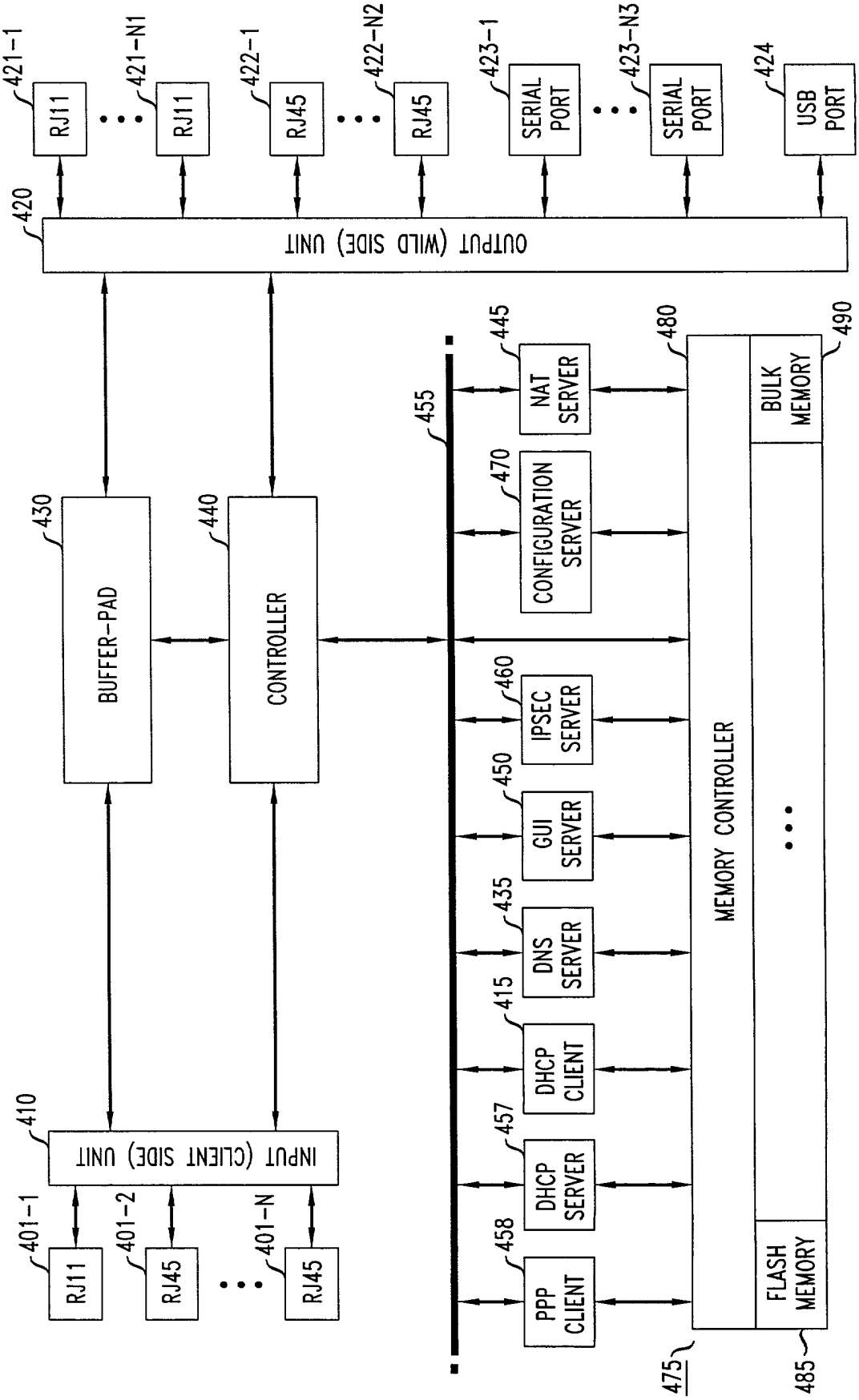

401-1
401-2
401-N
RJ11
RJ45
RJ45
410
INPUT (CLIENT SIDE) UNIT
430
BUFFER-PAD
440
CONTROLLER
420
OUTPUT (WILD SIDE) UNIT
421-1
421-N1
422-1
422-N2
423-1
423-N3
424
RJ11
RJ11
RJ45
RJ45
SERIAL PORT
SERIAL PORT
USB PORT
455
458
457
415
435
450
460
470
445
480
490
PPP CLIENT
DHCP SERVER
DHCP CLIENT
DNS SERVER
GUI SERVER
IPSEC SERVER
CONFIGURATION SERVER
NAT SERVER
MEMORY CONTROLLER
BULK MEMORY
FLASH MEMORY
475
485

FIG. 4

FIG. 5

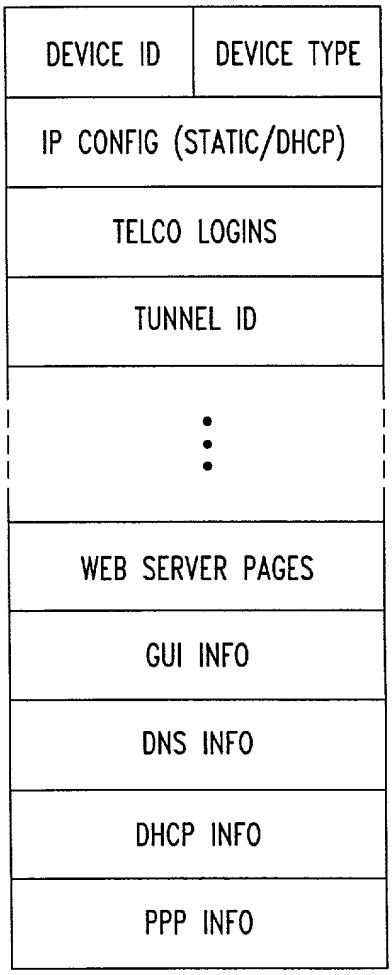

DEVICE ID
DEVICE TYPE
IP CONFIG (STATIC/DHCP)
TELCO LOGINS
TUNNEL ID
WEB SERVER PAGES
GUI INFO
DNS INFO
DHCP INFO
PPP INFO

FIG. 6

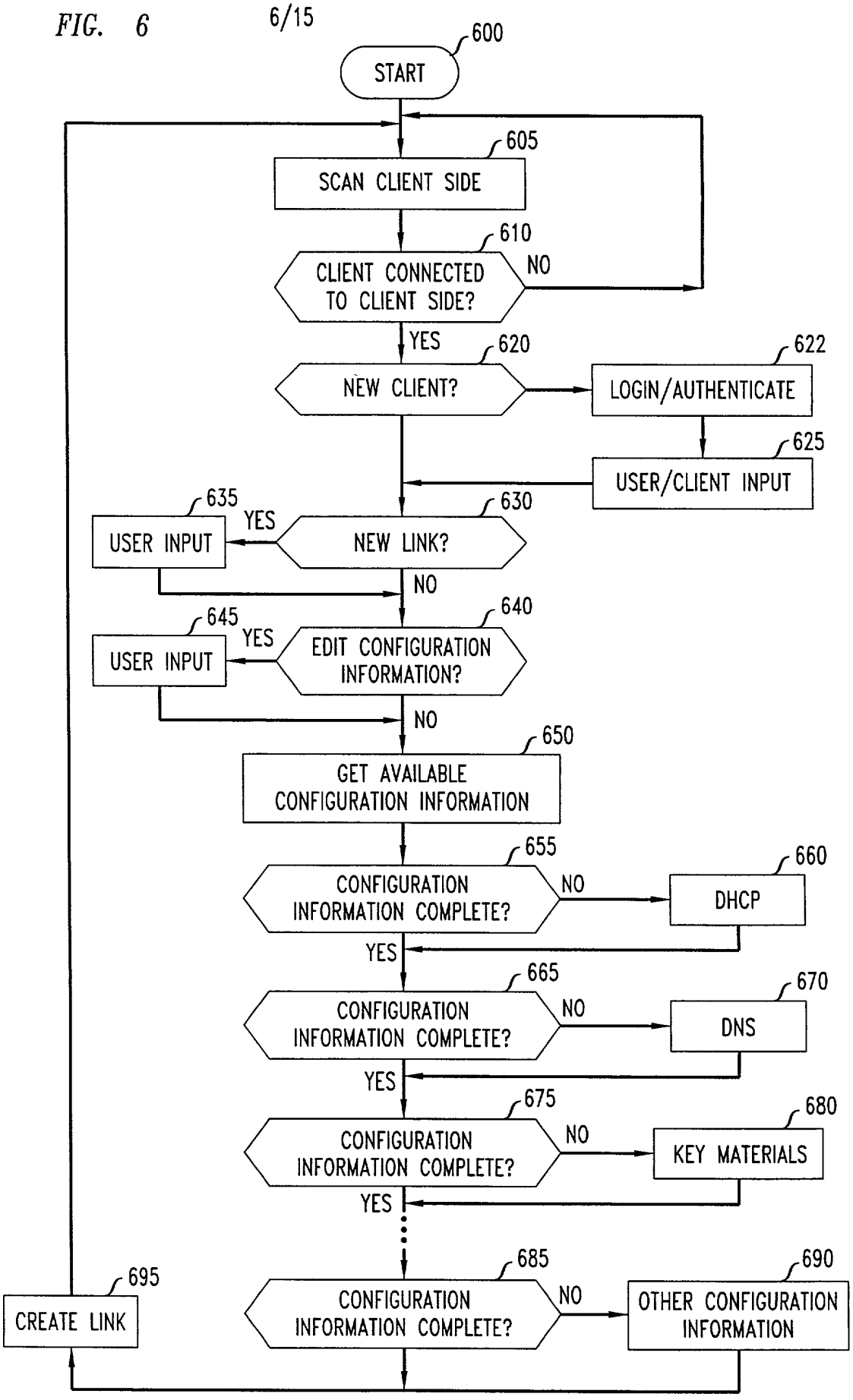

600
START
605
SCAN CLIENT SIDE
610
CLIENT CONNECTED TO CLIENT SIDE?
NO
YES
620
NEW CLIENT?
622
LOGIN/AUTHENTICATE
625
USER/CLIENT INPUT
630
NEW LINK?
635
YES
USER INPUT
NO
640
EDIT CONFIGURATION INFORMATION?
645
YES
USER INPUT
NO
650
GET AVAILABLE CONFIGURATION INFORMATION
655
CONFIGURATION INFORMATION COMPLETE?
NO
660
DHCP
YES
665
CONFIGURATION INFORMATION COMPLETE?
NO
670
DNS
YES
675
CONFIGURATION INFORMATION COMPLETE?
NO
680
KEY MATERIALS
YES
685
CONFIGURATION INFORMATION COMPLETE?
NO
690
OTHER CONFIGURATION INFORMATION
695
CREATE LINK

FIG. 7

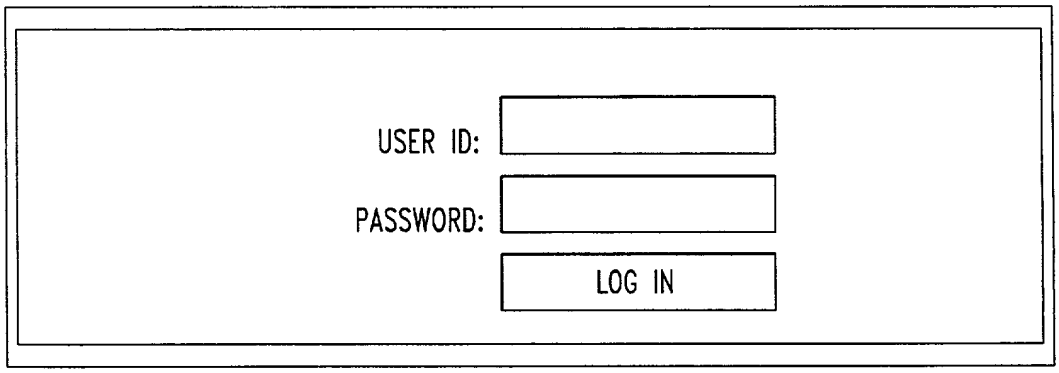

LOG IN
USER ID:
PASSWORD:
LOG IN

FIG. 12

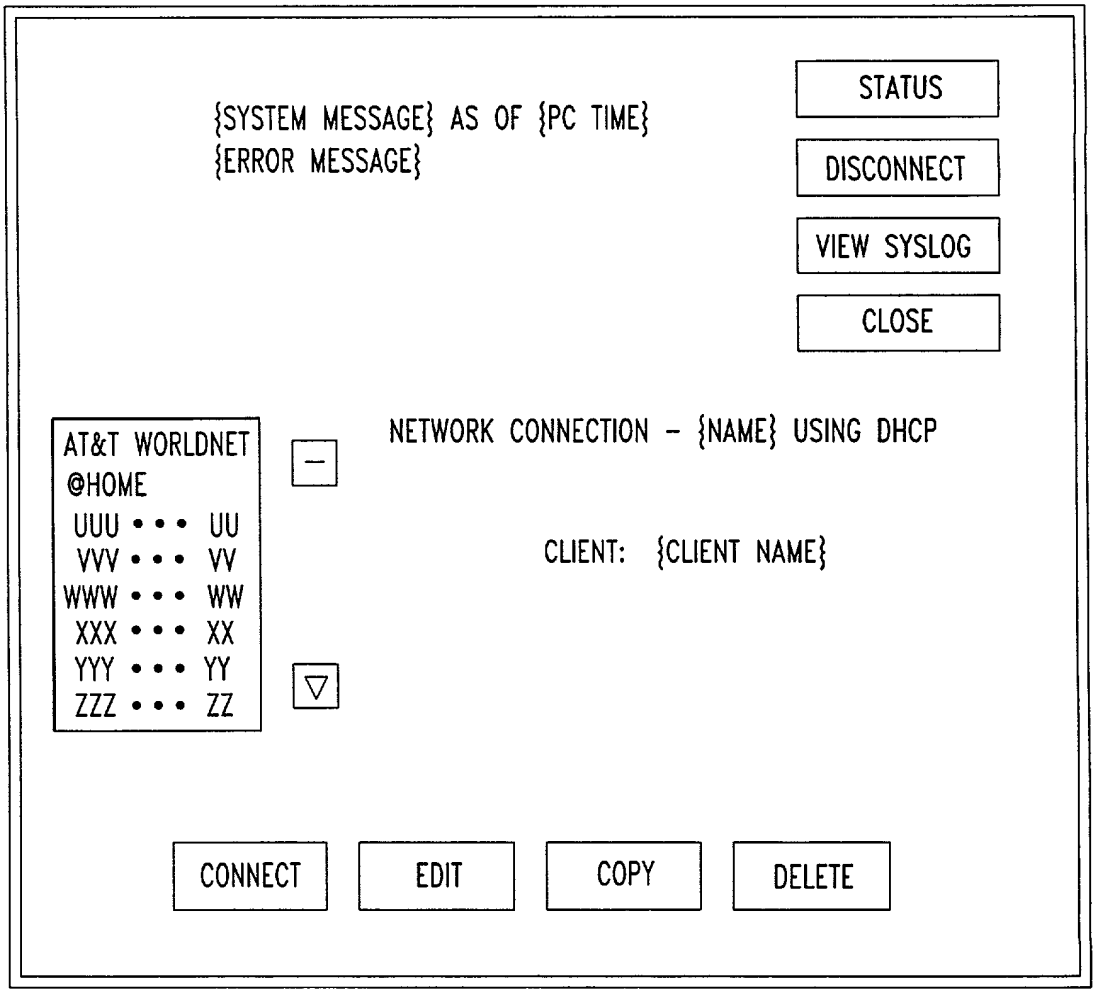

MAIN MENU
{SYSTEM MESSAGE} AS OF {PC TIME}
{ERROR MESSAGE}
STATUS
DISCONNECT
VIEW SYSLOG
CLOSE
AT&T WORLDNET
@HOME
UUU • • • UU
VVV • • • VV
WWW • • • WW
XXX • • • XX
YYY • • • YY
ZZZ • • • ZZ
NETWORK CONNECTION - {NAME} USING DHCP
CLIENT: {CLIENT NAME}
CONNECT
EDIT
COPY
DELETE

FIG. 8

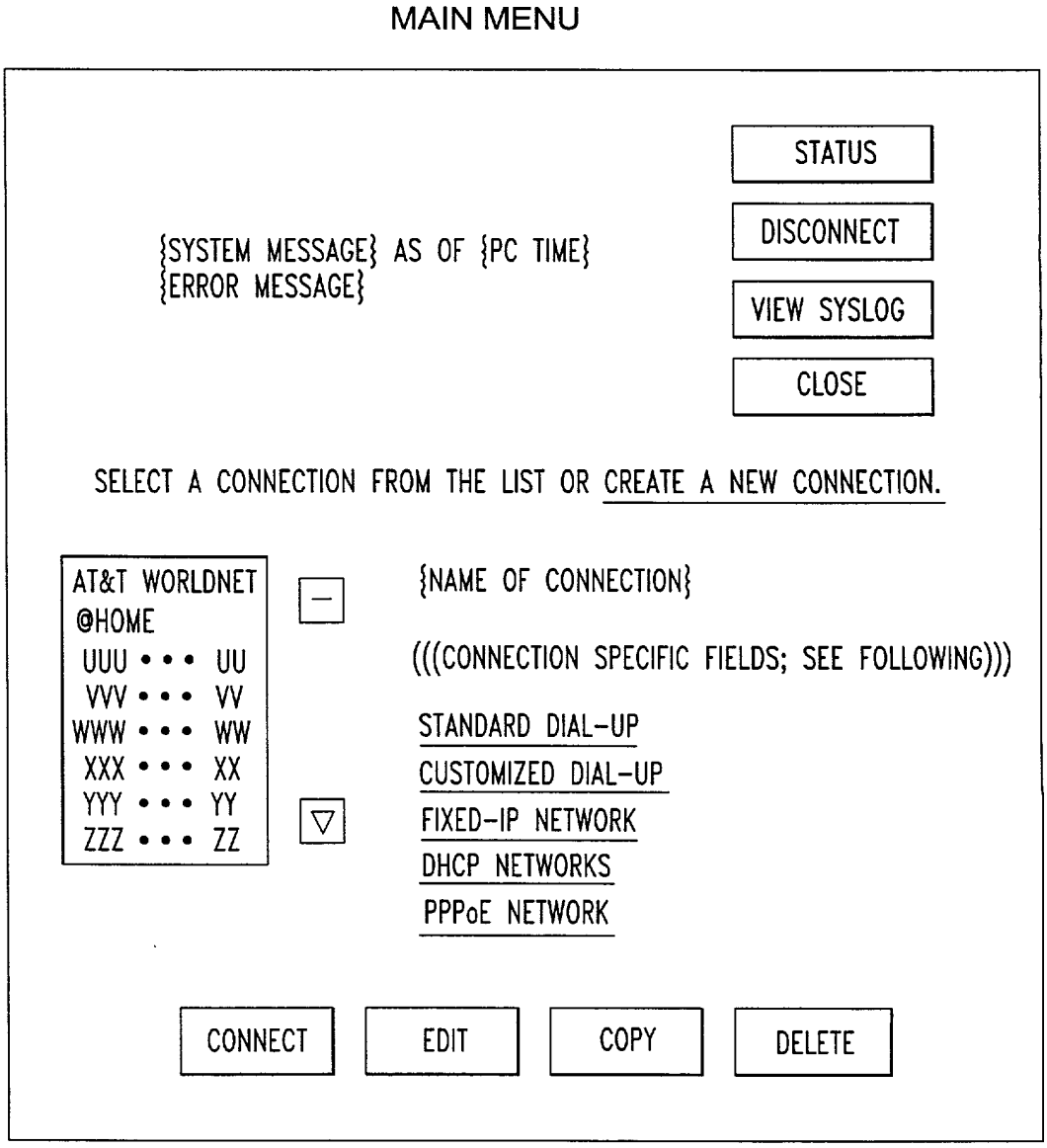

MAIN MENU
STATUS
DISCONNECT
VIEW SYSLOG
CLOSE
{SYSTEM MESSAGE} AS OF {PC TIME}
{ERROR MESSAGE}
SELECT A CONNECTION FROM THE LIST OR CREATE A NEW CONNECTION.
AT&T WORLDNET
@HOME
UUU • • • UU
VVV • • • VV
WWW • • • WW
XXX • • • XX
YYY • • • YY
ZZZ • • • ZZ
{NAME OF CONNECTION}
(((CONNECTION SPECIFIC FIELDS; SEE FOLLOWING)))
STANDARD DIAL-UP
CUSTOMIZED DIAL-UP
FIXED-IP NETWORK
DHCP NETWORKS
PPPoE NETWORK
CONNECT
EDIT
COPY
DELETE

FIG. 9

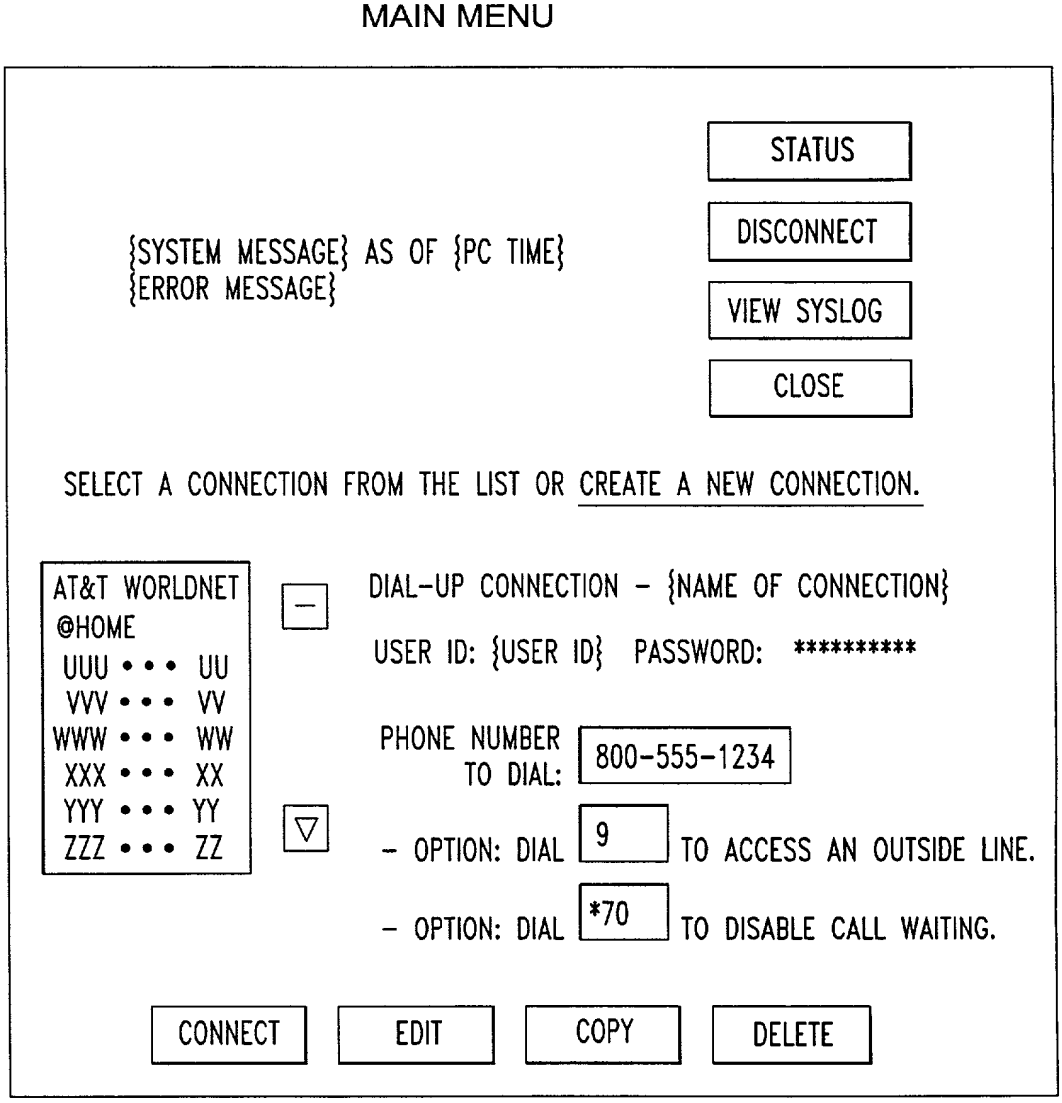

MAIN MENU
STATUS
DISCONNECT
VIEW SYSLOG
CLOSE
{SYSTEM MESSAGE} AS OF {PC TIME}
{ERROR MESSAGE}
SELECT A CONNECTION FROM THE LIST OR CREATE A NEW CONNECTION.
AT&T WORLDNET
@HOME
UUU • • • UU
VVV • • • VV
WWW • • • WW
XXX • • • XX
YYY • • • YY
ZZZ • • • ZZ
DIAL-UP CONNECTION - {NAME OF CONNECTION}
USER ID: {USER ID} PASSWORD: **********
PHONE NUMBER TO DIAL: 800-555-1234
- OPTION: DIAL 9 TO ACCESS AN OUTSIDE LINE.
- OPTION: DIAL *70 TO DISABLE CALL WAITING.
CONNECT
EDIT
COPY
DELETE

FIG. 10

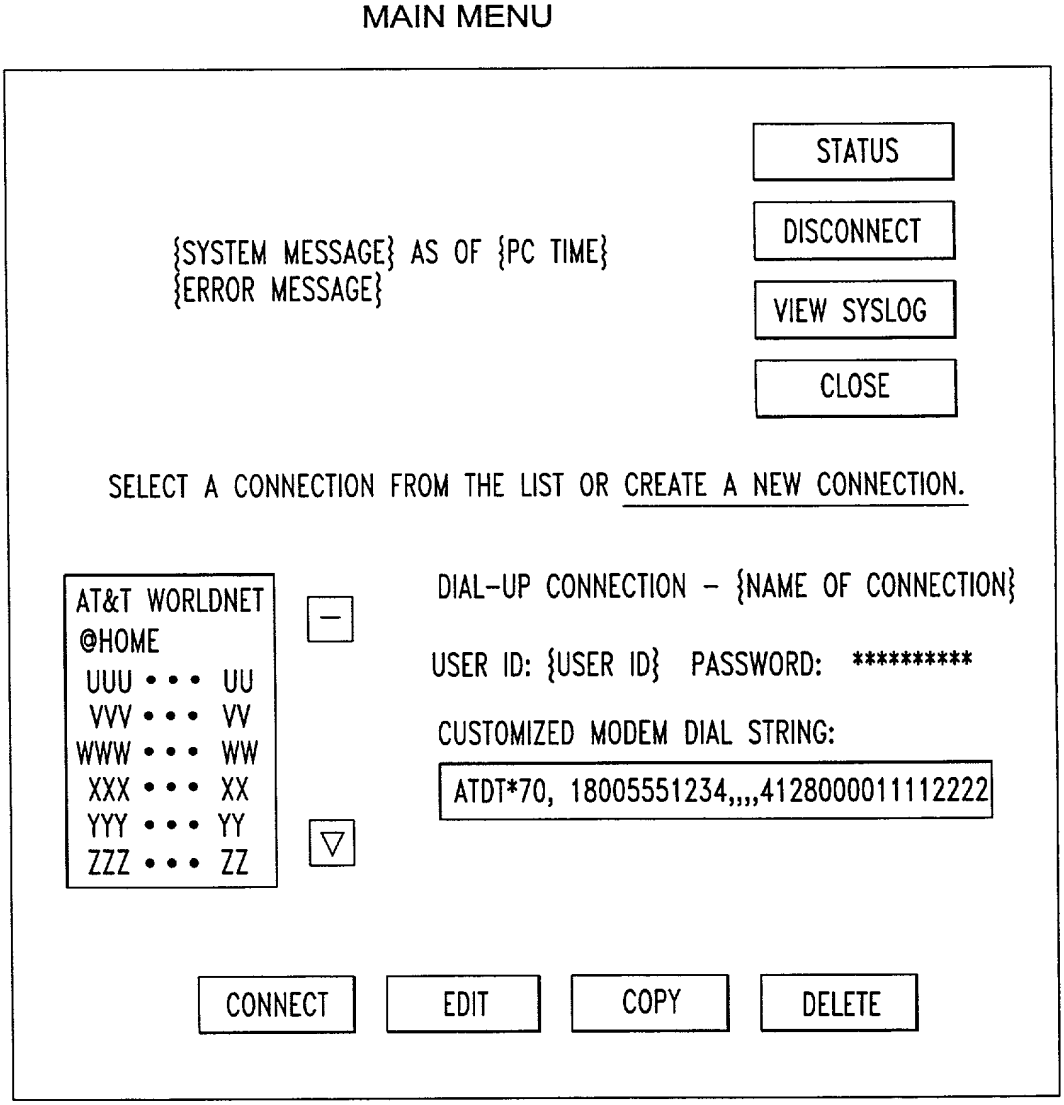

MAIN MENU
STATUS
DISCONNECT
VIEW SYSLOG
CLOSE
{SYSTEM MESSAGE} AS OF {PC TIME}
{ERROR MESSAGE}
SELECT A CONNECTION FROM THE LIST OR CREATE A NEW CONNECTION.
AT&T WORLDNET
@HOME
UUU • • • UU
VVV • • • VV
WWW • • • WW
XXX • • • XX
YYY • • • YY
ZZZ • • • ZZ
DIAL-UP CONNECTION - {NAME OF CONNECTION}
USER ID: {USER ID} PASSWORD: **********
CUSTOMIZED MODEM DIAL STRING:
ATDT*70, 18005551234,,,,4128000011112222
CONNECT
EDIT
COPY
DELETE

FIG. 11

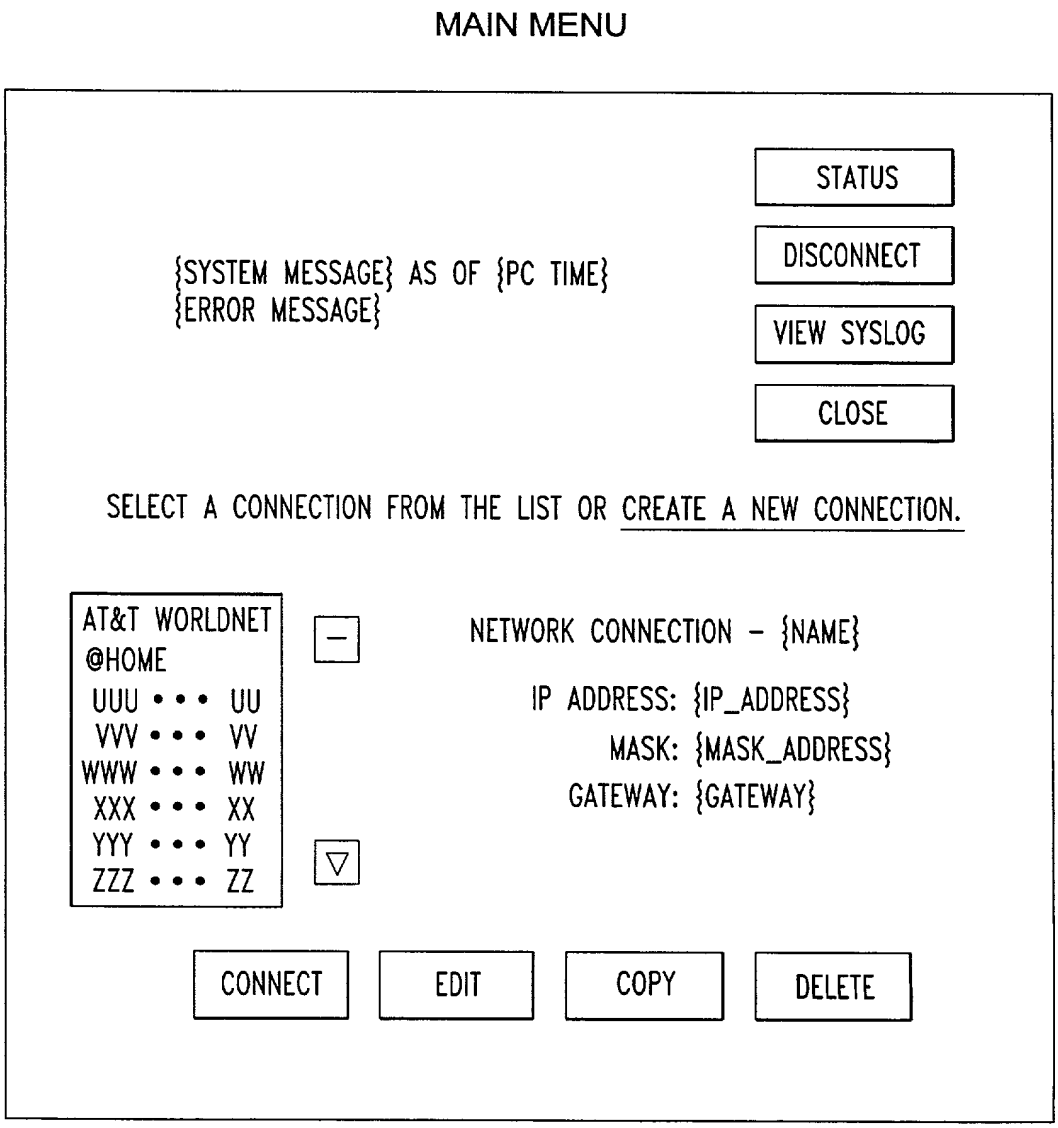

MAIN MENU
STATUS
DISCONNECT
VIEW SYSLOG
CLOSE
{SYSTEM MESSAGE} AS OF {PC TIME}
{ERROR MESSAGE}
SELECT A CONNECTION FROM THE LIST OR CREATE A NEW CONNECTION.
AT&T WORLDNET
@HOME
UUU • • • UU
VVV • • • VV
WWW • • • WW
XXX • • • XX
YYY • • • YY
ZZZ • • • ZZ
NETWORK CONNECTION - {NAME}
IP ADDRESS: {IP_ADDRESS}
MASK: {MASK_ADDRESS}
GATEWAY: {GATEWAY}
CONNECT
EDIT
COPY
DELETE

FIG. 13

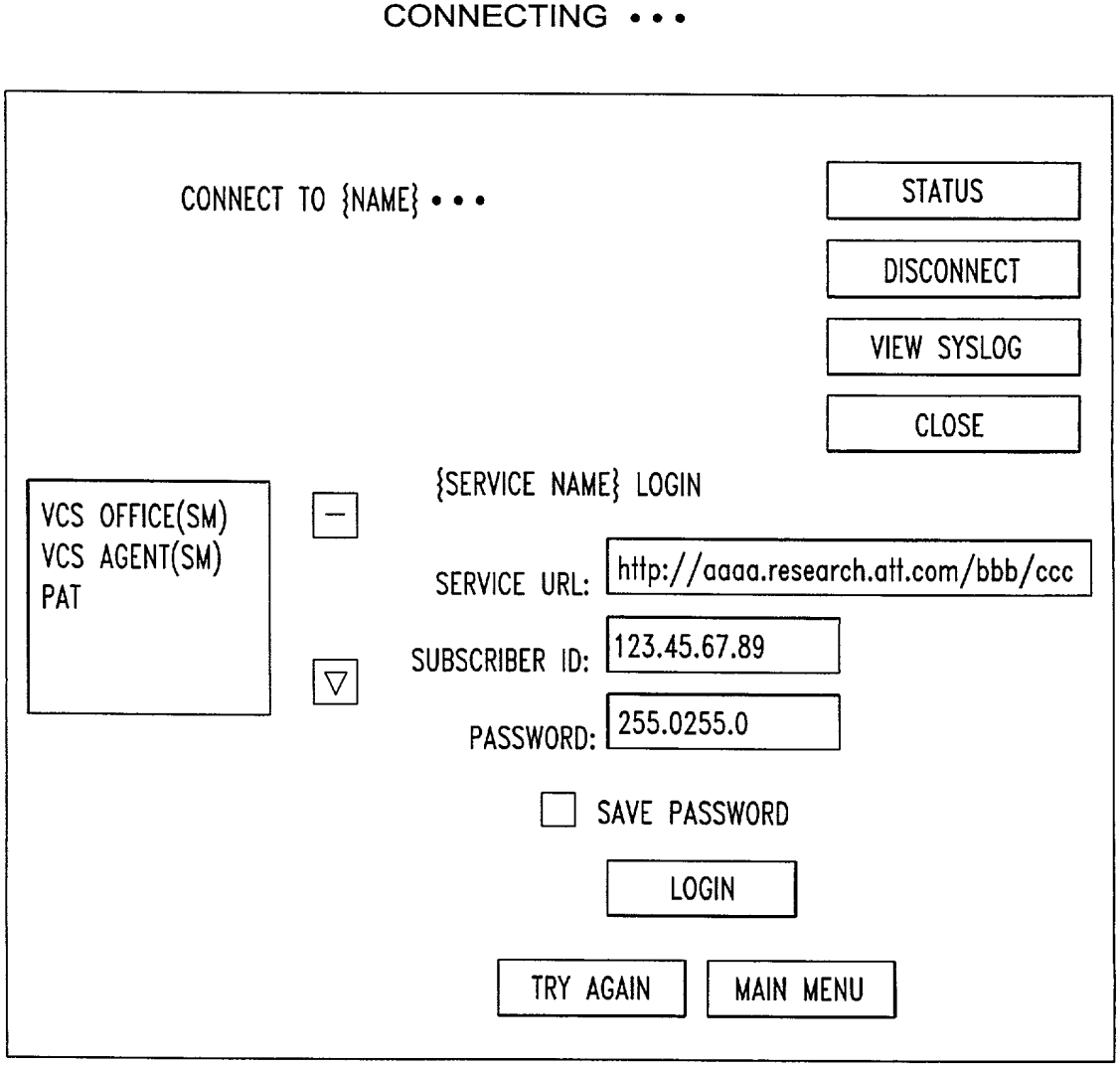

CONNECTING • • •
CONNECT TO {NAME} • • •
STATUS
DISCONNECT
VIEW SYSLOG
CLOSE
VCS OFFICE(SM)
VCS AGENT(SM)
PAT
{SERVICE NAME} LOGIN
SERVICE URL:
http://aaaa.research.att.com/bbb/ccc
SUBSCRIBER ID:
123.45.67.89
PASSWORD:
255.0255.0
SAVE PASSWORD
LOGIN
TRY AGAIN
MAIN MENU

FIG. 14

NEW CONNECTION

Step 1: Name

WHAT IS THE NAME OF THIS CONNECTION? [ ]

Step 2: Connection Type

○ DIAL-UP CONNECTION	○ NETWORK CONNECTION
A DIAL-UP CONNECTION USES A MODEM AND OBTAINS CONNECTION BY DIALING INTO A NUMBER.	A NETWORK CONNECTION USUALLY CONNECTS THROUGH LOCAL AREA NETWORK (LAN), CABLE MODEM, OR DSL.

Step 3: Specific Information

FOR DIAL UP CONNECTION • • •	FOR NETWORK CONNECTION • • •
USER ID: [ ]	◉ *USE DHCP*
PASSWORD: [ ]	HOST: [ ]
○ *USE STANDARD DIAL-UP CONFIGURATION*	*– OR –*
PHONE NUMBER TO DIAL: [ ]	○ *USE FIXED IP ADDRESS*
– OPTION: DIAL [ ] TO ACCESS ON OUTSIDE LINE.	IP ADDRESS: [ ]
– OPTION: DIAL [ ] TO DISABLE CALL WAITING.	MASK: [ ]
– OR –	GATEWAY: [ ]
○ *USE CUSTOMIZED MODEM DIALING STRING*	
[ ]	

[SAVE] [START OVER] [CANCEL]

FIG. 15

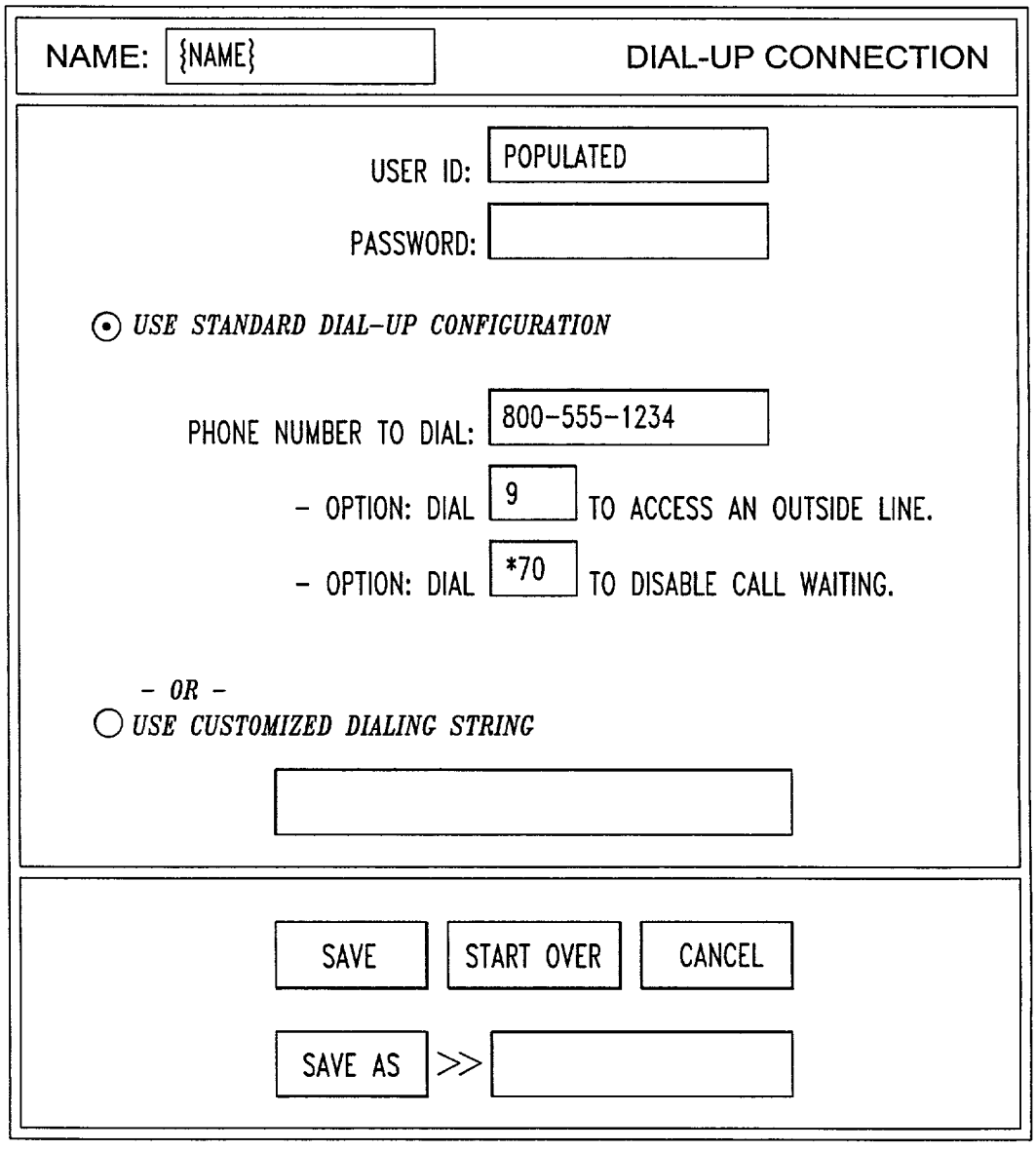
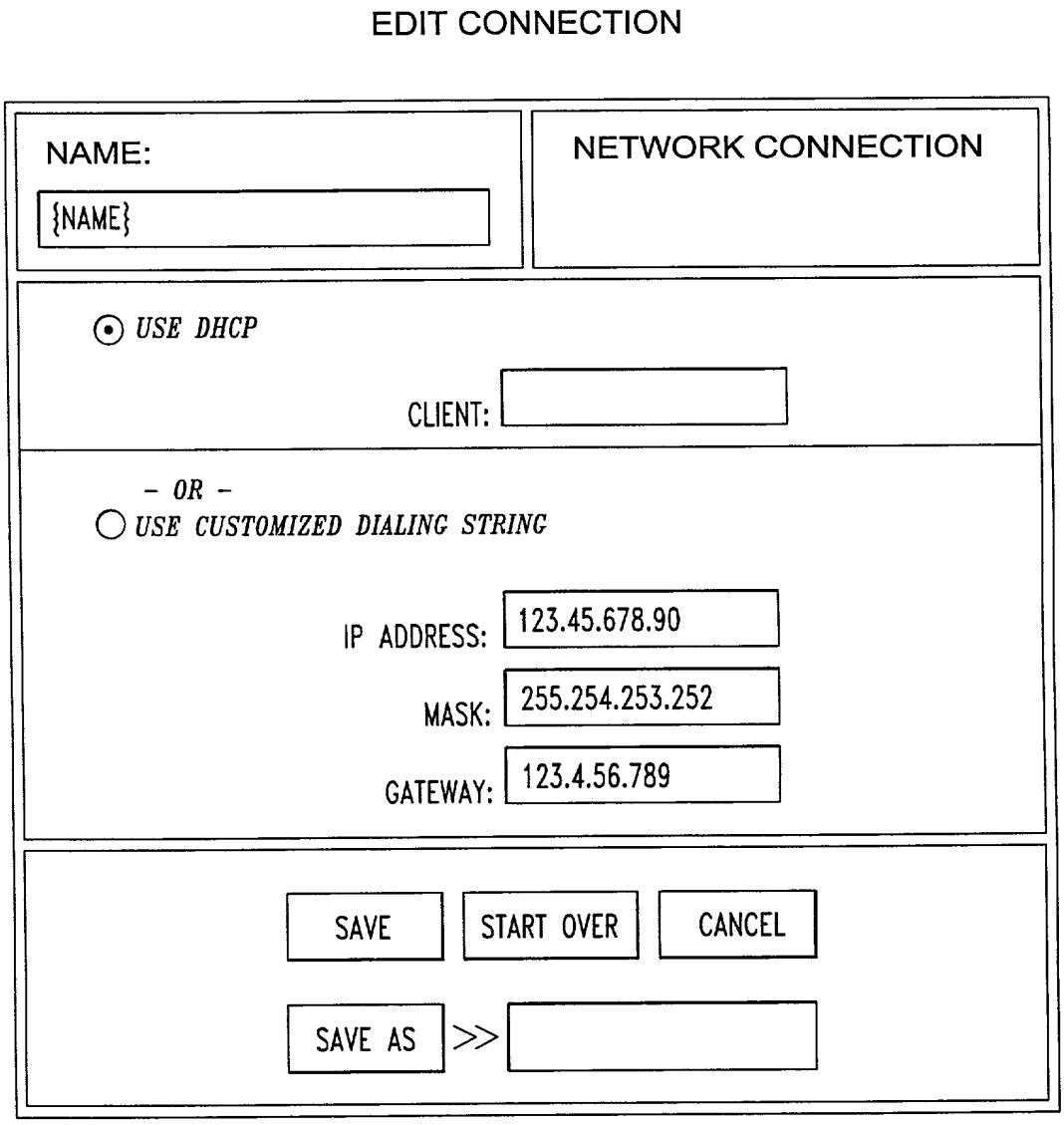

EDIT CONNECTION
NAME: {NAME}
DIAL-UP CONNECTION
USER ID: POPULATED
PASSWORD:
USE STANDARD DIAL-UP CONFIGURATION
PHONE NUMBER TO DIAL: 800-555-1234
- OPTION: DIAL 9 TO ACCESS AN OUTSIDE LINE.
- OPTION: DIAL *70 TO DISABLE CALL WAITING.
- OR -
USE CUSTOMIZED DIALING STRING
SAVE
START OVER
CANCEL
SAVE AS >>

FIG. 16


EDIT CONNECTION
NAME:
{NAME}
NETWORK CONNECTION
USE DHCP
CLIENT:
- OR -
USE CUSTOMIZED DIALING STRING
IP ADDRESS:
123.45.678.90
MASK:
255.254.253.252
GATEWAY:
123.4.56.789
SAVE
START OVER
CANCEL
SAVE AS
>>